

NAME _____

DATE _____

Module 7 Solving Linear Equations and Inequalities of Two Variables
Lesson 2 Graphing Linear Equations of Two Variables

independent practice

For each equation, complete the table.

1. $3x - 3y = 0$

x	y
0	
	-2
	-6

2. $x - 2y = 5$

x	y
	-3
	-1
9	

3. $4x - y = -1$

x	y
0	
	-3
	9

4. $x + 3y = -2$

x	y
1	
	2
	0

Using the following equations, find the x- and y-intercepts of the graphs.

5. $x - y = 2$

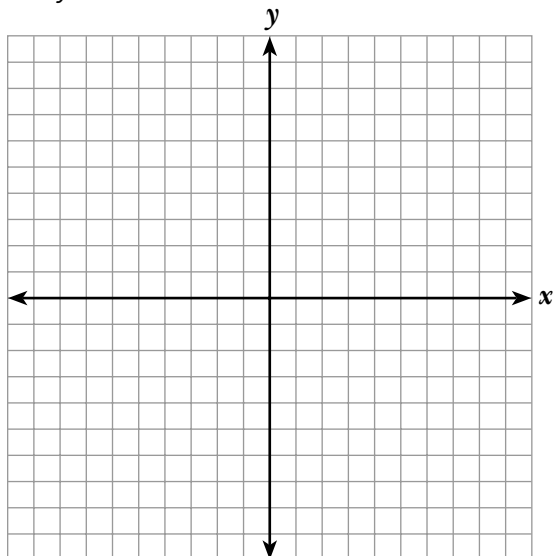
6. $5x - y = 3$

7. $2x + 3y = 6$

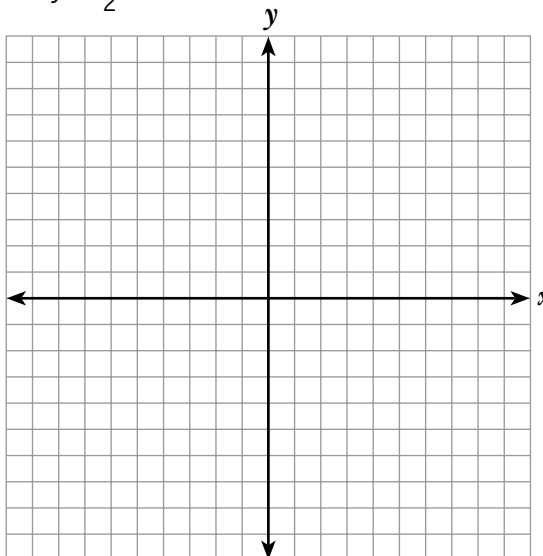
8. $y - 6x = 3$

Graph each equation using a table, the intercept method or the slope-intercept method.

9. $y = -x$

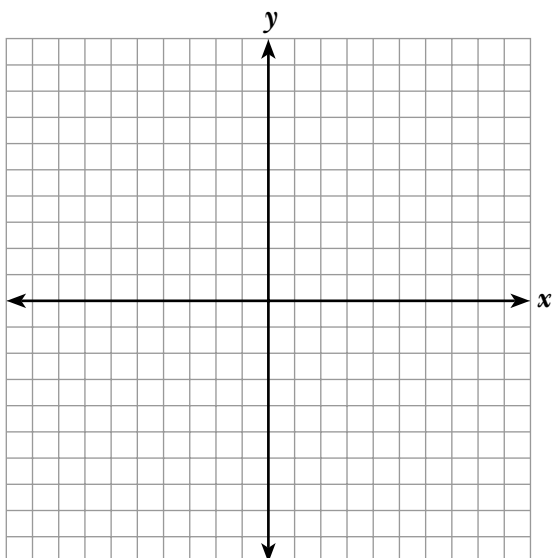


10. $y = \frac{1}{2}x$

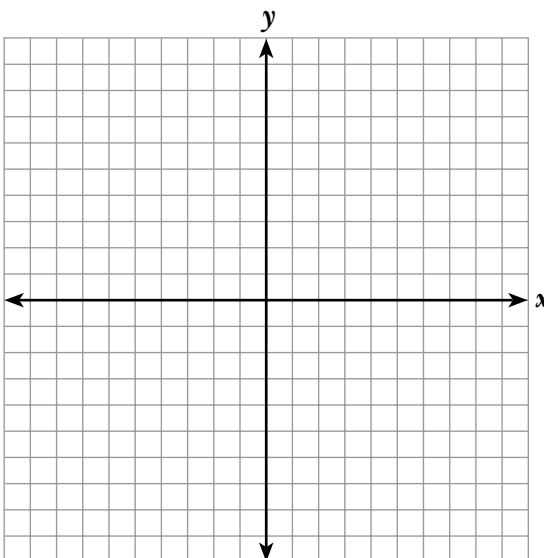


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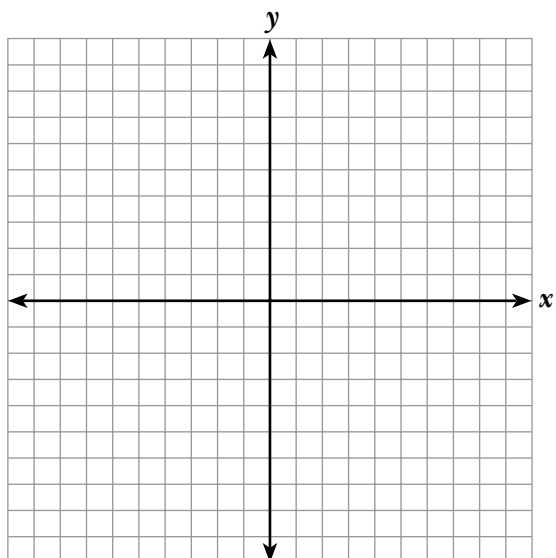
11. $y = -6$



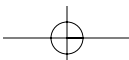
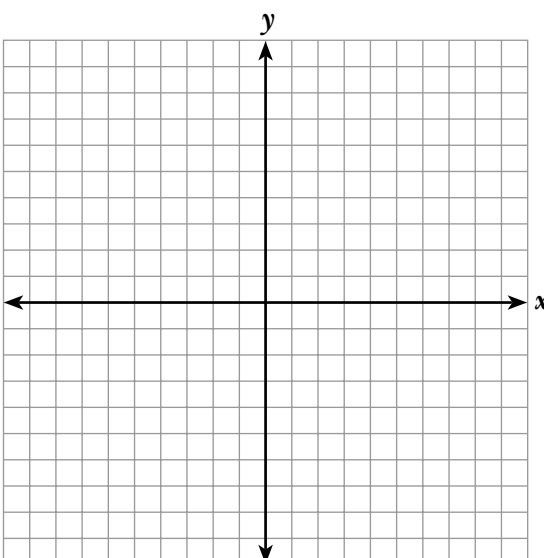
12. $3y = x + 9$



13. $y = 3x + 2$



14. $y - 5x = -1$



Journal

1. Why is it important to graph at least three points of a linear equation?
2. Explain why you cannot **find** all the solutions to a linear equation, but you can **represent** all the solutions to a linear equation.
3. Explain how you would graph the equation $2x - y = 4$ using intercepts.
4. Explain the meaning of a sign on the side of a mountain road that reads, "10% grade." Use slope in your explanation.
5. Explain to a student who was absent how to graph a line using the slope-intercept method.

Cumulative Review

Combine like terms.

1. $4c + 5b - d - c + 6b - a$

2. $a + b - 2c - 3d + d - 4a$

3. $x - y^2 + x + x^3$

4. $x^2 + 3x - 4x + 7$

5. $y^3 - y^2 + x + x^3$

6. $3x^3 - y^3 + 5y^2 - x^3$

7. $6\sqrt{x} + 2\sqrt{x}$

8. $9a^2b - 4ab + 2a^2b$

9. $-2\sqrt{x} + 5 + 3\sqrt{x}$

10. $5x^3 - 2xy^3 + 6x^3$

